



Mobile PV® Series Carbon adSorPtion SyStem

Applications

The Mobile PV® series carbon adsorption system is a self-contained, trailer-mounted treatment system which features four PV series liquid phase carbon adsorbers (two sets with two adsorbers per set) and a bag filter housing for the removal of suspended solids. The adsorbers are configured to allow series or parallel operation within each set of adsorbers as well as backwashing of each adsorber. The mobile treatment system is ideally suited for temporary needs or unplanned events where rapid response is critical and to avoid downtime. The system also provides the opportunity to pilot test new technology before capital investment of a full-scale treatment system.

Suitable applications include:

- Pipeline hydrotesting
- Groundwater remediation
- Construction dewatering
- Wastewater treatment

Installation, Startup and Operation

The Mobile PV system is designed for rapid and easy mobilization at the customer site. The system arrives with the carbon preinstalled. Three connections for the influent, effluent, and backwash outlet are all that is needed to connect to the system.

Evoqua can provide a total service package that includes utilizing OSHA trained personnel providing on-site carbon change-outs, and packaging and transportation of spent carbon for recycling at our reactivation facilities where the contaminants are thermally destroyed.

We provide instructions on sampling the spent carbon and completion of our spent carbon profile form. Spent carbon acceptance testing can be performed at our certified laboratory. When requested a certificate of reactivation will be issued.

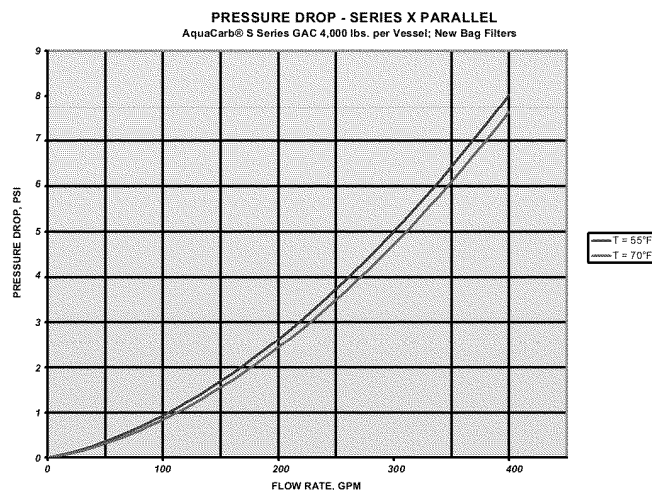
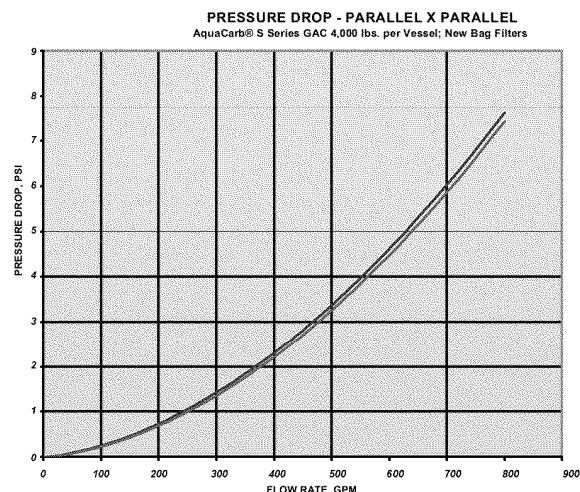
Specification

Overall trailer dimensions (LxWxH)	48'-0" x 8'-6" x 13'-3"
Number of Adsorbers	4
Adsorber Dimensions, diameter x overall height (approx.)	72" x 118"
Inlet connection	8" flanged
Outlet connection	8" flanged
Backwash discharge connection	8" flanged
Adsorber drain connection	2" FPT
Vent / pressure relief connection	1" Kamlock
Media outlet	3" Kamlock
Top and side manway	14"x18" elliptical
Internal distributors	316SS
Approx. carbon weight per Adsorber (lbs.)	4,000
Trailer empty weight (lbs.)	33,300
Trailer shipping weight (lbs.)	49,300
Trailer operating weight (lbs.)	81,500
Pressure, psig (max.)	75
Temperature, deg. F (max)	140
Maximum flow rate (gpm) – four adsorbers in parallel	800
Contact time at max flow (minutes)	5.4
Prefilter housing	Bag filter, carbon steel

^a Maximum flow for 4,000 lbs. GAC per adsorber. Vessels can be loaded with 5,000 lbs. GAC to increase capacity to 1000 gpm with no backwash capability for adsorbers.

Warning

Safety Note: Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.



4800 North Point Parkway, Suite 250, Alpharetta, GA 30022

+1 (866) 926-8420 (toll-free) +1 (978) 614-7233 (toll) www.evoqua.com

PV is a trademark of Evoqua, its subsidiaries or affiliates, in some countries.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2014 Evoqua Water Technologies LLC Subject to change without notice WS-MOBPV-DS-0514